#### PHILOSOPHIC

# ODE

ONTHE

SUN

AND THE

# UNIVERSE.

Alme Sol, curru nitido diem qui
Promis et celas, aliusque et idem
Nasceris, possis nibil urbe Roma
Visere majus!
Hor. Carm. Sæc.

#### LONDON:

Printed for J. PAYNE, and J. Bouquer, at the White-Hart, in Pater-noster-Row.

M.DCC.L.

# PHILOSOPHIC

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S. U. N

AND THE

# UNICE RSH.

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TODON.

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the net in awful transport cry out

ERE a Man introduced into the World at once, with all the powers and faculties of his foul in full vigour and perfection, how would he be aftonish'd on surveying

the magnificent scene of things before him; the Earth, the Air, the Seas, the azure vault of Heaven, the almost infinite variety of plants and animals, the glorious regent of the day bountifully dispensing light and heat to all around, the silver queen of night, and all the host of Heaven passing nightly in review before him. But how would his admiration rise, if he should further be

made acquainted with the discoveries of the Telescope, the Microscope, and the Prism; when he should sometimes be obliged to stretch his imagination to the utmost, to conceive the immensity of the great whole, and soon again contract it to attend to the imperceptible minuteness, the surprizingly-sine and subtil texture, the amazingly-wise and apposite disposition of its constituent parts; would he not in awful transport cry out with the Psalmist, Great and marvellous art, thou O Lord! in all thy Ways, and wonderful in all thy Works!

But as the human understanding opens gradually, this stupendous scene becomes familiar before the understanding is mature: and when men have arrived at maturity, their lives, their reason, all the powers of their souls, are so engross'd in providing the necessaries of life, or in supplying the wants of luxury, they are either so totally involved in business, or immers'd in pleasures, that sew ever set apart one single hour for

contemplating the wonders of nature; add to this, that many perfuade themselves that such speculations are too sublime, difficult and abstruse, and, besides, of no great use or advantage. Hence it is that those momentous truths, those shining precepts, so legibly and distinctly wrote in the great volume of nature, are so little attended to, and lose so much of their force and impression.

Now I have thought that the comprising a clear and fuccinct idea of the universe in a little poem, and interspersing some late discoveries therein, might be a means of gaining the attention of mankind, and of exciting them to serious contents. and a frequent and prosound meditation upon the wonderful phænomena of the Universe cannot fail of making a deep impression, so deep, that I should think it impossible for Men, accustomed to such meditations, to open their eyes to let in the light, without letting in, at the same time, an

awful idea of the majefty, goodness and omnipresence of the great Creator, than which nothing can more effectually contribute to the eradicating the profaneness and debauchery, the impiety and immorality, with which this devoted nation is at present over-run. South states with the profanence of the profanence of the profanence and debauchery, the impiety and immorality, with which this devoted nation is at present over-run. South states with the profanence of the profanence o

eat Xoread ear

Now I have thought that the comprising a clear and fuccind idea of the universe in a little poem, and interspersing some late discoveries therein, might be a means of gaining the continuous and event and the theorem to strict meditation upon one wonderful phasnement of the Universe carnot fail of making a deep impression, so deep, that I should shink it impossible for Men, accustomed to such meditations, to open their eyes to let in the light, without letting in, at the same time, an eight!



#### Here liberty, Ind arts, And beauty's all-countried the me

Deferve thy cho: 3 H T NO

Oh the French is the court But half fo warm, to bright as thine,



ADIANT Sovereign of the day! Whose swift, whose all-enlivening ray Dispels the gloom of night:

Whose fulgent orb new life imparts,

Fills every eye, all grateful hearts,

With rapture and delight thin an annual work of

B. Ashon band sones Mongft

Line 1, 2.] The distance of the Sun bout 25 days. Spots are frequently dis-from the Earth is about 81,000,000 of cover'd in him; he appears bigger, and is maken, which space light moves over in nearer the Earth in Winter than in Summiles, which space light moves over in 8'13". Sun's diameter is about 700,000 miles. He revolves round his axis in a-

mer, and is about 116 times bigger than all the planets put together.

'Mongst all the realms from pole to pole,

That in thy view incessant roll,

Distinguish Britain's isles.

Here liberty, and arts, and arms,

And beauty's all-commanding charms

Deserve thy choicest smiles.

12

Oh! did fair Virtue's influence shine

But half so warm, so bright as thine,

How would this land be blest!

But see the lovely Goddess mourns,

Asham'd to see Britannia's sons

By motley vice deprest.

18

Do thou illume my rifing breaft,
In all thy glories ftand confest,
And all thy pow'rs reveal!

continued and standing the line

male waying a war over a mode on bride and a

es in appeal to lawn and you off

Be thou my Muse, in every line	
Let thy inspiring arder thine, it and demans fi'val world	
Let me thy presence feel lulorg doir out lis 524	
That blows in each parterre:	
Thou wak'ft the flow'ry pride of fpring, or eler ad'	ľ
Thou giv'st the feather'd race to sing only a diluted a	
And Nature's life restores : var guitning vdT	
From thee the vine's rich juices flow,	
To thee the golden grain we owe; and out our onld?	ľ
Nurs'd by thy genial pow'rs spirole and anida 13	
That fluike us with delight,	
In living green thou rob'A the earth, at hangest and	T
And giv'ft her rich embroid'ry birth nineve roblim	>
That Indid's gems outvies and mahov o'T	
Thy vivid colours yonder glow	
In that wide-stretch'd coelestial bow,	
Great Titian of the skies!	6

B 2

Line 35.] The Sun-beams refracted and reflected by the drops of rain in a falling shower from the rainbow.—The center of the Sun, the center of the bow, and the eye of the spectator are always in a right line.

Thou

## [4]

Le thou my Male, in every time
Thou lay'ft enamel on the meads, a gainight yell tall
And all the rich profusion spreads
That blows in each parterre:
The role's red, the violet's blue, work out it always would
The tulip's variegated hue and b'radual add fl'vig nod T
Thy painting rays confers old a outself bala 42
From thee the vine's rich juices flow, and the
Thine are the tints that paint the east, or off out off
All thine the glories of the west, you do here!
That strike us with delight,
When fragrant morn's refreshing pow'rs,
Or milder evening's peaceful hours in the line
To verdant meads invite, 250 and 1 48
the hild colling tonder plant with the
In the wide-finished collectial bow,
Great Thing of the shies!

Line 35.3 The Sur-Benne religions of the Sun, the center of the new star of the feedback of the free drops of the same bear, and the feedback are should feduce from the nucleon.— I a ways in a right line.

Thine are the charms that flush the face,

Thine every eye-delighting grace,

That makes the lover gaze:

Those light nings, that refistless fly solds show slott start from lovely Delia's sparkling eye, demand with the face,

Are thy reflected rays are newed to the first show slott start to the face,

Sh'nilani only stidio suoiney mad T

Nor yet to scanty Earth alone appropriate the stay free bounteous favour shown, appropriate to only for her sake;

re Nerg'er chiesen adiag fare

Scarce a cr emerges from thy bittee

For

Line 49] This and the preceding verses are design'd to inculcate that great discovery of Sir Isaac Neuvon's, that the Sun is the great source and sountain of colours. Let not the ladies quarrel with me, and imagine that this doctrine robs them of their beauty. If their faces have a power of separating and resecting a charming assemblage of colours, 'tis the same thing as if the roses and the lillies actually inhered and grew there: Their

and his ni too dand

charms are as much their own upon one fuppolition as upon the other. 'Tis more than probable that not only the different colours, but all the other different qualities of material objects arise from their texture; that the first or original particles of all forts of matter are the same, and that the diversification of bodies arises only from the different modification and composition of these first particles.

conde never goes, is the ris plant

are the bidulated or a half have a

All those vast globes which thee attendania ingil aloul T And on thy warmth and light depend, and visual most

What secret power retains ?bother with and

Their various orbits who inclin'd?

Their periods, distances, assign'd? I visual of to for

Their forces, laws, fullains ruosinuod son vios

Or only for her fake;

That makes the lover chac :

There Merc'ry close-attending stays, Scarce e'er emerges from thy blaze

To unaffifted fight:

Line 4.0] This end the preceding vertes me delend to lengthese that const. The News of the the tree of the the contain of the great tource and formain of

Line 64. The Planets don't move all in the fame plane. Mercury's orbit is inclin'd to the plane of the ecliptic in an angle of 7° 0'—The inclination of Venus's orbit is 3° 24'—of Mars's 1° 52'—of Jupiter's 1° 20'—of Saturn's 2° 30'. The inclinations of the orbits of all comets are very great, so that the planets are less liable to be disturb'd by them.

Line 67.] Mercary revolves round the Sun in 88 days; he is so near the Sun, that the time of his rotation upon his axis has not yet been observed. His diameter is only 1500 parts of that of the Sun; he is never further than 28 degrees remov'd from the Sun; sometimes passes over the Sun's disk, appearing like a black spot in the Sun.

colours. Let not the ladies enacted with

Next lucid Venus round thee whirls, the period of the changing orb now wants now fills, ou adolp done to the beauty of the night role with done but 72

Their annual race around thee run, Manual race around the race around the run, Manual race around the race around the run, Manual race around the run, Manual race aro

take great, the belt-encircled Jove

Swiftly beyond is Adn to move,

Line 70.] Venus revolves round the Sun in 224½ days, round her axis in 23 hours (or, according to Bianchini, in 24 days 8 hours). She has phases like the Moon; her diameter is 1000 parts of that of the Sun; her greatest elongation from the Sun exceeds not 48 degrees.—When she appears brightest, we see not above ½ of her lucid disk. Sometimes she appears like a spot in the Sun; she did so in 1639, and will again pass over the Sun in May 1761; when, if altronomers are accurate and careful in their observations, the distance of the Earth from the Sun may be determined to within 1000 part of the whole.

from the Sun-may be determined to within yes part of the whole.

Line 73:] The Earth revolves round the Sun in 365 days 5 hours 49 minutes, round her axis in 24 hours; her diameter is about 75 to parts of that of the Sun, or 8000 miles; diffance from the Sun about 81 millions of miles: but this will be more

which is the difference of langitude.

exactly known in 1761. The distance of the Earth from the Sun being once settled, and the periodical times of the other Planets being known, their several distances may be found by means of the general law which regulates their motions, and is hereafter mentioned.

The Earth's fatellite, the Moon, is 240,000 miles diffant from the Earth; her diameter is about  $\tau_{00}^{2}$  parts of that of the Earth; fhe compleats one entire revolution in her orbit in 27 days 7 hours, which is called a periodical Revolution; but 29½ days elapse between one conjunction and another, which space of time is called a fynodical Month or Revolution. The same sace of the Moon is always turned towards the Earth, and consequently she turns upon her axis in the same time that she revolves round the Earth, that is, in 27 days 7 hours.

large in a dige try bodies, the third

confilents a revolution in p days 3] hours

#### [8]

Yet often, in their focial course, or some work Each closes up thy lucid fource you doo guignado nell And each thy glories hide, to yoursed ad 78

Red fiery Mars, the next in place, bus durant sort In æther's unrelifting space bauora som launna riedT

Alone performs his rounds, battle goodl va The great, the belt-encircled JovE Swiftly beyond is feen to move,

With twice two focial Moons and the comment of the production of the comment of t

Tol de San; her greated elongation

Early; the complests Line 79.] Mars turns round the Sun in 1 year 322 days, upon his axis in 24 hours 40 minutes—His diameter is 1008 parts of that of the Sun.

epin alient tetalistica della wall because The Lucid's Stelling, the Libert

express mile without from the Earth, to the diameter of the mode at the mail and

Line 82.] Jupiter revolves round the Sun in 11 years 315 days round, his axis in 9 hours 56 minutes; his diameter is 18 parts of that of the Sun. He has 4 Moons, or Satellites; the first, or nearest whereof revolves round him in I day 18½ hours. The second circulates in 3 days 133 hours; the thirdcompleats a revolution in 7 days 34 hours;

the fourth in 16 days 16 hours. Thefe Satellites pass sometimes behind Jupiter, fometimes over him. The observation of the times of their immersion and emerfion, or of their entering upon or behind Jupiter's body, or disk, and getting clear of it again, is of great use in determining longitudes: For, by comparing the observed times with the times mentioned in tables calculated for any place whose longitude is known, we get the difference in time between the two places, which is the difference of longitude.

When the appears brighted, we lee not above ! of her lucid at a. Sometimes

the appears like a feat in the Sun; the

#### [[9]]

To this thy vast, thy wide domain, diation of shall like.

The ring-furrounded Saturn's reign of Saivensbau and Assigns the bounding line.

Assigns the bounding line.

Five Moons, the leaden planet nigh, well become and Thy much-enseebled light supply, it could shall like the And on his natives shine.

All

Line 86.] Saturn revolves round the Sun in 29 years and 166 days; he is foremote, that the time of his rotation upon his axis has not yet been observed. His diameter is 1616 parts of that of the Sun; his first Satellite revolves round him in 1 day 21 hours; his 2d in 2 days 17 hours; the 3d in 4 days 12 hours; the 4th in 15 days 22 hours; the 5th in 79 days 7 hours. The thickness of his ring is not great; its breadth is about equal to half his diameter.

When

Line 90.] That all the Planets are inhabited is an establish'd article of the astronomical creed, with me at least it is: The bulk of mankind nevertheless look upon this as a mere fancy and chimera, as an extravagant reverie of overfond and over-credulous mathematicians. But credulity is not the foible of mathematicians; let us hear what they have to fay in defence of this opinion. There are 6 Planets, which all revolve round

the Sun, and round their own axis; three of them are nearly equal in bulk to the Earth, two of 'em are several hundred, nay thousand times larger. The Earth, we know, is inhabited; we know too that the final cause of its revolution round the Sun and its own axis, is to produce the vicissitudes of day and night, of summer and winter, for the convenience of its inhabitants. May we not then, by parity of reason, fairly conclude that the end and design of the revolutions of all the other Planets is the same? Is not this agreeable to that beautiful harmony, and uniformity of design which obtains in the universe? But it has been said that the Planets, and all the hosts of Heaven were created to manifest the power of the creator to man. That this is an effect of this grand and magnificent sabric is agreed, but that it was the final cause of its creation, Gredat Judeus Apella.—To establish this opinion

#### [ 101]

All these to mortals Wand'rers seem, they will said of But undeserving such a name. As behavioral grin and Paris and a support of the Comets' course the course the Comets' course the course the course the Comets' course the course the course the Comets' course the course the course the Comets' course the course the course the Comets' course the course the Comets' course the course the course the Comets' course the course the Comets' course the c

When

few questions. The Satellites, or Moons of Jupiter and Saturn are not perceptible by the naked eye, and known only to a few; and it will be readily granted that the Earth's Satellite, the Moon, is design'd to give light to the Earth in the absence of the Sun. Now are not the Moons of Jupiter and Saturn probably design'd for the same purpose? Do we not see that the more remote a Planet is from the Suu, the greater apparatus it has for this purpose? Jupiter has 4, Saturn 5 Moons, and a Ring besides, all probably intended to supply the light, and perhaps to encrease the heat of the Sun. Now if Jupiter and Saturn be not inhabited, to what end is all this care, all these wonderful contrivances to supply them with light and heat? But what reason is there to suppose the Plarets uninhabited? Is there any thing I ut buman Pride to induce men to be-

lieve that all those millions of Suns (in comparison with the least of which this Earth is but a point, an atom) are only so many brilliants to embellish the azure mantle of night, and to form a rich and superb canopy for the lord of this globe? Good heavens! how ridiculous is the vanity of this human reptile! not content with lording it over this spot of Earth, he must needs arrogate the homage of the universe, and refer all things to himself as to their ultimate and final cause!

Line 04.] The great Kepler first discover'd that the Planets move round the Sun, so as to describe areas proportional to the times; and also that the squares of their periodical times are in proportion to each other as the cubes of their distances: But the greater Sir Isaac Newton first fully illustrated and demonstrated these two laws or theorems.

#### 

Then with a lengthen'd, folendid train

# When devious Comets swift descend, and enorger of

To renovate their fire;

har firetching tails porter tos blaze

Line 97] The number of Comets belonging to this folar fystem is not known,
perhaps never will be: We know nothing at all of the Comets of the southern
hemisphere, or those whose aphelia are
in the regions of the heavens south of the
ecliptic. We have a list of 24 or 25 of
the northern Comets which have been
observed, but there may be many more
of them; for if, when a Comet enters
within the limits of our system, the position of its orbit with respect to the
Earth be such, that a line drawn from
the Earth to the Comet and continued,
terminates in the Sun, or in those parts
of the heavens near the Sun, its plain
the Sun's vicinity and superior sustre will
hinder its being visible: Many Comets
therefore may have visited us, and departed unobserved; many, which formerly were invisible, may at their next
visit make a signal and splendid appearance; and others, which have formerly
terrify d mankind, may at their next return be invisible.

The obliquity or inclination of the orbits of Comets to the plane of the ecliptic (in or near which plane all the Planets move) is so great, that the motions of the regular Planets are nor near so liable to be disardered and disturbed by comets, or irregular Planets, as they would otherwise have been. But yet every Comet in its way to and from the Sun passes the plane of the ecliptic in two

places, and therefore the time may come when a Comet may approach fo night the Earth, as that the two globes may rufh together with inconceivable violence and force. In such a case, the whole furface of this globe would be consumed in a moment; magnificent palaces, and opulent cities, haughty potentates, and their numerous subjects, all the works of art, all the productions of nature, Earth and less, with all their various tribes of plants and animals, would be involv'd in one common ruin, in the twinkling of an eye would be converted into a vaft cloud of vapour, dust and smoke. Not would the after of the mighty fabric receive the honour of a common obsequies, they would not be entembed in a grave, or included in an urn, but would be wildly tossed and agitated round the solid butting mass, just as surious blasts, or devouring stames impell'd them; whilst such parts of this globe, whose density prevented their distipation, would coalesce, and be united to the Comet, and the new-form'd globe would strike out a new path in the ethereal regions. And yet, awful and tre-mendous as this dreadful union feems to us little mortals, it would be with refpect to the universe a trifling event; of no more importance than the collision of two falling drops of rain is with respect to this earthly globe.

Then with a lengthen'd, splendid train

To regions far remote again of about a moived madW

Reluctantly retire.

Their stretching tails portentous blaze

With terror and with wild amaze

The gazing nations fill,

Whilst bold astronomy explores

Their natures, periods, distance, pow'rs,

With scientific skill.

Eight hundred millions mete the space

To renovate their fire:

A distance vast, immense!

From thee to flow-pac'd SATURN's place;

Yet

Line 102.] From the last note it follows that comets or planets move quicker motion is retarded in receding from it.

as they approach the Sun, and that their motion is retarded in receding from it.

marks the right of the education in the

Yet thrice ten thousand times as far who is now home? "Tis, ere we reach the nighest star? b'mulli doine odi. I 32 That studs the blue expanse. If to about valia

In yonder Galaxy, 'tis true consens a comboned nebbud The heaps of stars to mortal view and an and ail Form one continuous white;

Each ftar feems join'd to other's fide, Yet spaces no less vast divide it should and well one of

Those twinklers of the night.

On closer view, amazing scene! In every star a fun is seen, Like thee as great, as bright:

Round

Line 115] I should be glad to see some probable conjectures concerning this phænomenon. One thing I inferfrom it, which is this; that the universe, or the creation, is finite, contrary to the opinion of the celebrated Dr Halley:

For if the universe, or the creation, were infinite, as that great man supposed, this conglomeration of stars in one part of the heavens would not appear, but they would feem pretty equally dispos'd allaround us.

#### [ 14 ]

Round each revolving planets roll, hoods not sored to? Like earth illum'd, from pole to pole, and aw and all' By floods of flarry light, and add about and T126

Sudden sometimes a stranger star in washed rebnoy at. Will in the azure plains appear, and sould be equal and But meteor-like foon end : maitros suo mol Another fystem's Comets thefe, of binding amount of the down

Or are they Suns, whose feeble rays will and about to Y car With footy crusts contend to and kniws shod T132

Thus grand the wide Creation's reign, Thus furnish'd the ethereal plain, a not a rail wrove all Still teeming with new birth : 10 14 ord 1 of 1

Line 1777 I flould be glad to fee I or fruit poixetfee as the calcium, whose

But

Sauca

Line 130] Is not this conjecture pro-bable? The common opinion is that these new stars are Suns, which having been suffocated and obscur'd for a time come and suppress'd.

But what is this to boundless space, brim sid that co.

Where worlds and matter have no place in which the same worlds and matter have no place in the same with the same

Newton, immortal Newton, rose; or and demonstrate This mighty frame, its order, laws, and below the His piercing eye beheld:

That Sun of Science pour'd his streams, and and All Darkness sted before his beams, and and and and And Nature stood reveal'd.

By Man be Heaven's commands rever'd,

Be Nature, Reason, always heard,

Let these his actions rule:

So

Line 138] Whether the creation be finite or infinite, is a point yet agitated atmongst the learned, as has been before observ'd: For my part, I believe it finite, and that, immense as the spot is which

creation has cultivated, it bears a far less proportion to infinite space, than a small garden, or even a grain of sand, does to the whole Earth. But what is this to, svorqui velocitation and matter to the cache day infigire coelestial love, and matter to the carden to the cardinal will be a substant to the cardinal will be a substant

Though Newton's genius cloudless shone,

Discover'd truths before unknown,

By none before believ'd;

The time will come when such shall know

Much more than Newton ever knew,

Than fancy e'er conceiv'd.

Yes, time a messenger shall send,
Who shall all doubts and scruples end,
And clearer views present;

When

Line 154] By fuch I mean they who live in the manner recommended in the preceding verse. Others, whose minds have acquir'd a contrary bent, may have no relish for these pleasures; and, for a punishment, may be immers'd deeper, and united more strongly to unactive matter hereaster, than they are in their present state of imprisonment.

Line 159] A defire of novelty, and thirst after knowledge is natural to the human mind; I therefore presume that the gratification thereof will be one of the pleasures of the bless'd: And what an ample field does the universe afford! How many ages would pass in barely informing ourselves of the number of worlds.

When quick as thought our posts we'll change, or or From World to World advent'rous range, and the diw Through all the wide extent.

———— But let us not, in wonder loft, forget

The architect divine, all-good, all-wife, all-powerful;

Who spake to being this stupendous fabric,

Bade spirit, matter, all from nothing rife,

Stretch'd boundless space, and arch'd the azure skies;

Plac'd every system, kindled every Sun,

And bade each globe its destin'd circle run;

То

worlds? How many more in acquainting ourselves with the forms, the nature,
the employment of their several inhabitants? How many more still in enquiring into their revolutions and mutations,
their antiquity and history, their arts
and sciences? Thus we see the gratiscation of one single defire would require
almost an eternity.—But who can describe, or even conceive, the joys that will
flow from the mutual love and benevolence, that will eternally and uninterruptedly reign amongst the Blessed, that is to
say, amongst the spirits of the best of

men, and the best and greatest of every other class of rational beings?—And how vastly short will all this be of the unspeakable happiness that will arise from a more intimate communication with, and a clearer perception of, the great and supreme author of our and all other being!—Add to this, that in the new bodies we shall be clothed with, numberless inlets of pleasure and happiness may be open'd, that we can now have no more conception of, than a man born blind can have of light, colours, or the pleasures of fight.

#### [ 18 ]

To every world its proper beings gave, a sloup nor W With all that's needful to preferve and fave: 10W mon'I To thee, the origin of all, the greatest, best, Be all our love, our gratitude, our praise addrest! 173 ..... Bult let us not, in wonder loft, forget

The architect divine, all good, allowith, all-powerful year Who fpake to being this Rupendous fabric, on W Bade spirit, matter, all from nothing rife, a see

Secreta'd Boundlon Thin, and sich'd the arme ficies; Plac'd every lystem, kindled every Sun, And bade cad glob it. delin'd circle run ;

worlds? How many more in acquaint- grow the left and ground of overy word bet A .... , egniod la soitet all this he of the uniformly eregia mortalite liw to sicution with, and a or of our and all ocure helig! LEAd to this, that in the more bodies we To stalk it designs addressed in the later . Jasqu'ed van deciment bes etc. etc. -quotien anne en aven der ence control n and, then a detail been blind our bord or light, coloiles, or the pleature of figure.

their antiquity and biliory, and feiences i. Thus we for the great with the active of H - assistance the flowing Kribera even conceived a partial cells How from the much love and howertonicalism will exercise the contractions. or d'indr bollell ale finteche union elle thy emorge the forms of the belt of

ing our felves with the forms, the

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